

The Maxi-Minis

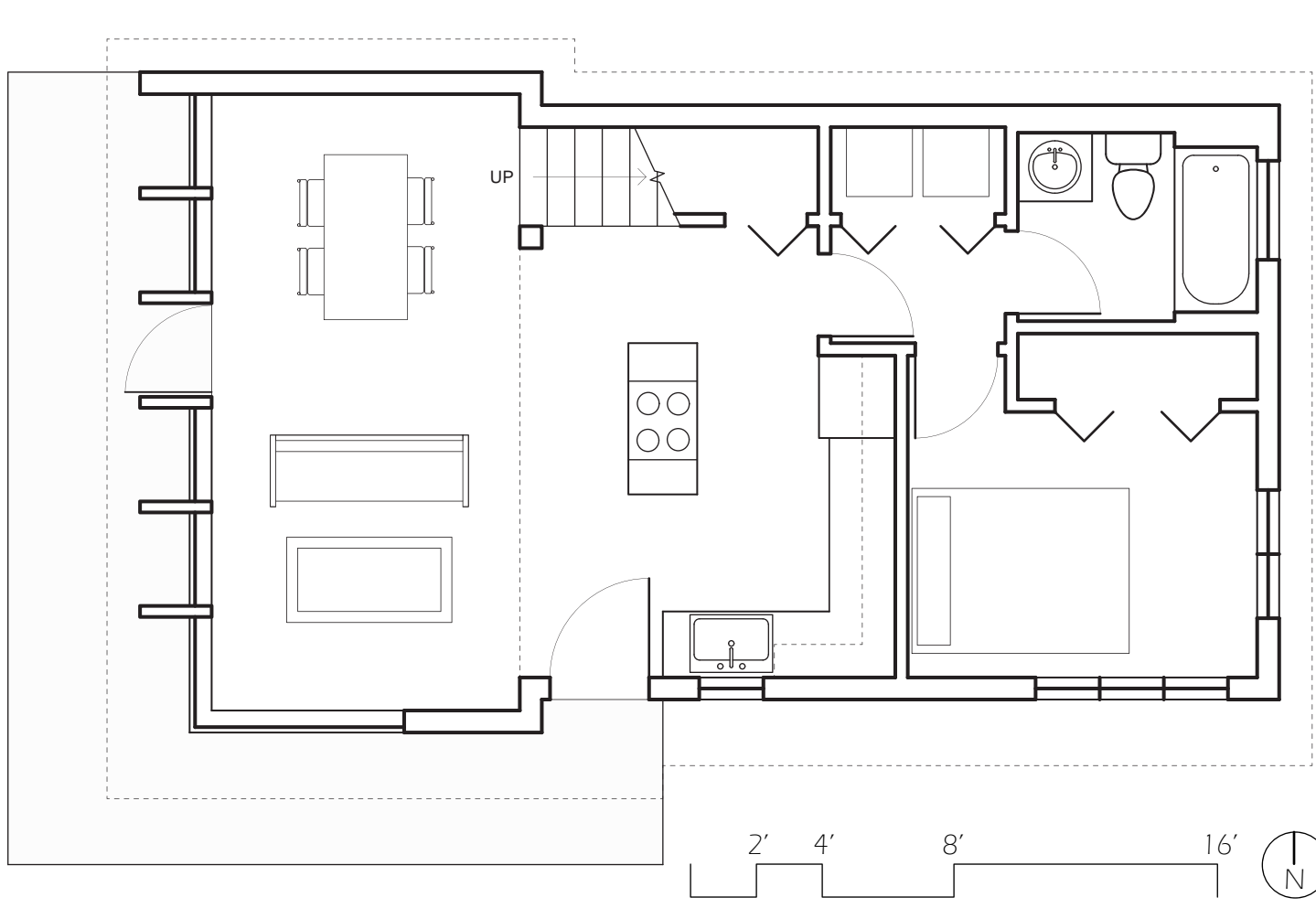
Pari Rishi Architects Inc.
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Design team: Pari Rishi, principal + Michael Geline + Kevin McManus
Building Performance Consultants: Carl Pirocchi

The Project aims at maximizing the potentials of the site and phenomenal qualities of each dwelling by creating bright, efficient and compact units. Each unit benefits from an elongated Southern exposure for maximum solar gain and passive ventilation. While the footprint of each house is minimized to accommodate pre-existing site and area requirements, each of the units is designed with a double height living space to maximize light and view exposures. Adding deciduous trees on the south and the West side will ensure protection against glare during the winter and shade during the summer. The two and Three bedroom units offer one bedroom at the ground level, allowing for continuously accessible living on one floor, while the bedroom(s) upstairs offer light-filled spaces that are private and separated from the ground floor. The South facing roofs are designed to accommodate maximum production for the PV panels with extended overhangs to protect from summer overheating, while permitting passive solar gains in the winter. The houses will be heated/ cooled with air source heat pumps and benefit from heat recovery ventilators. LED lights, energy star equipment and the compact layout will all contribute to the zero-net energy consumption of the building.

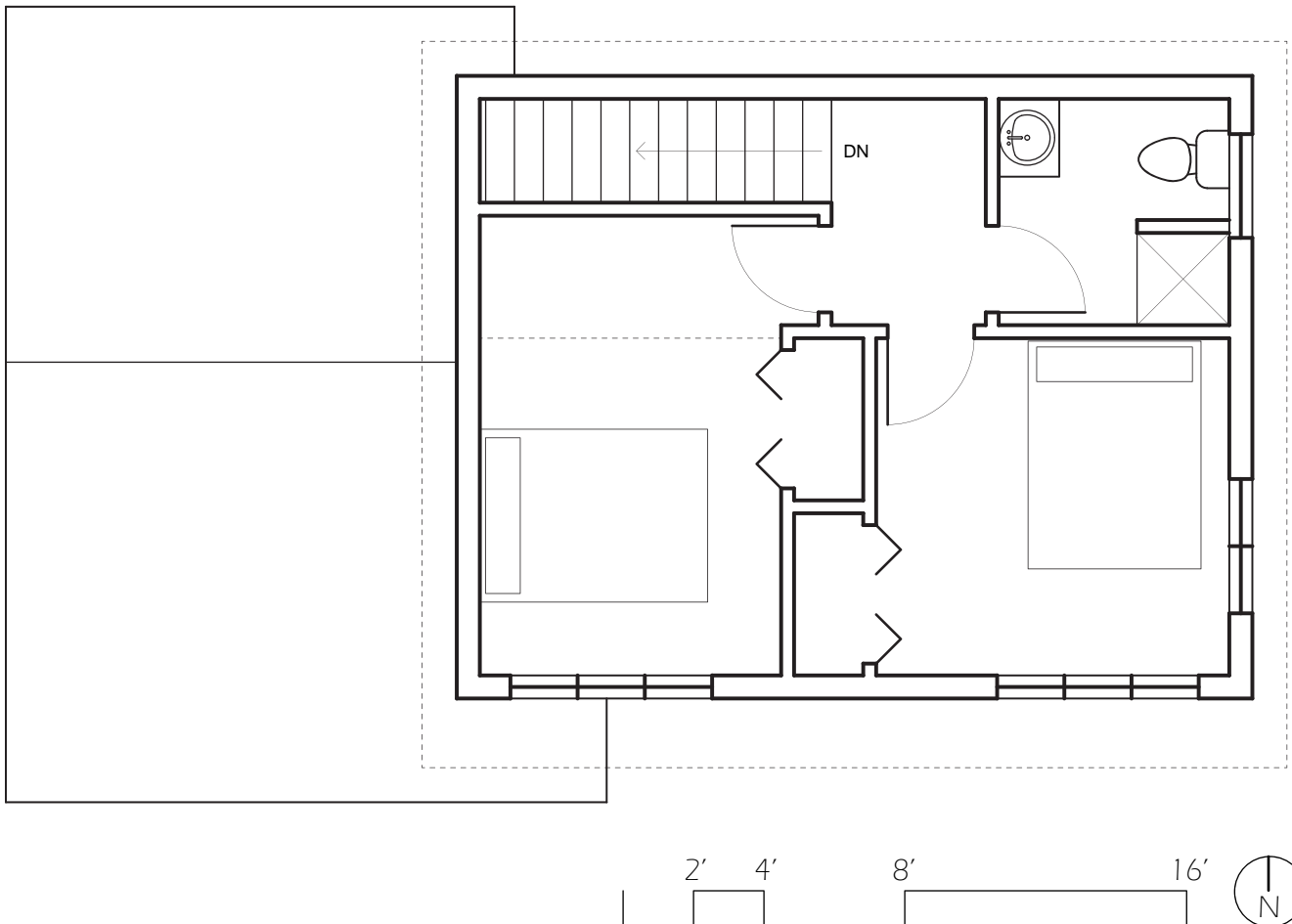


SITE PLAN

THREE BEDROOM UNIT

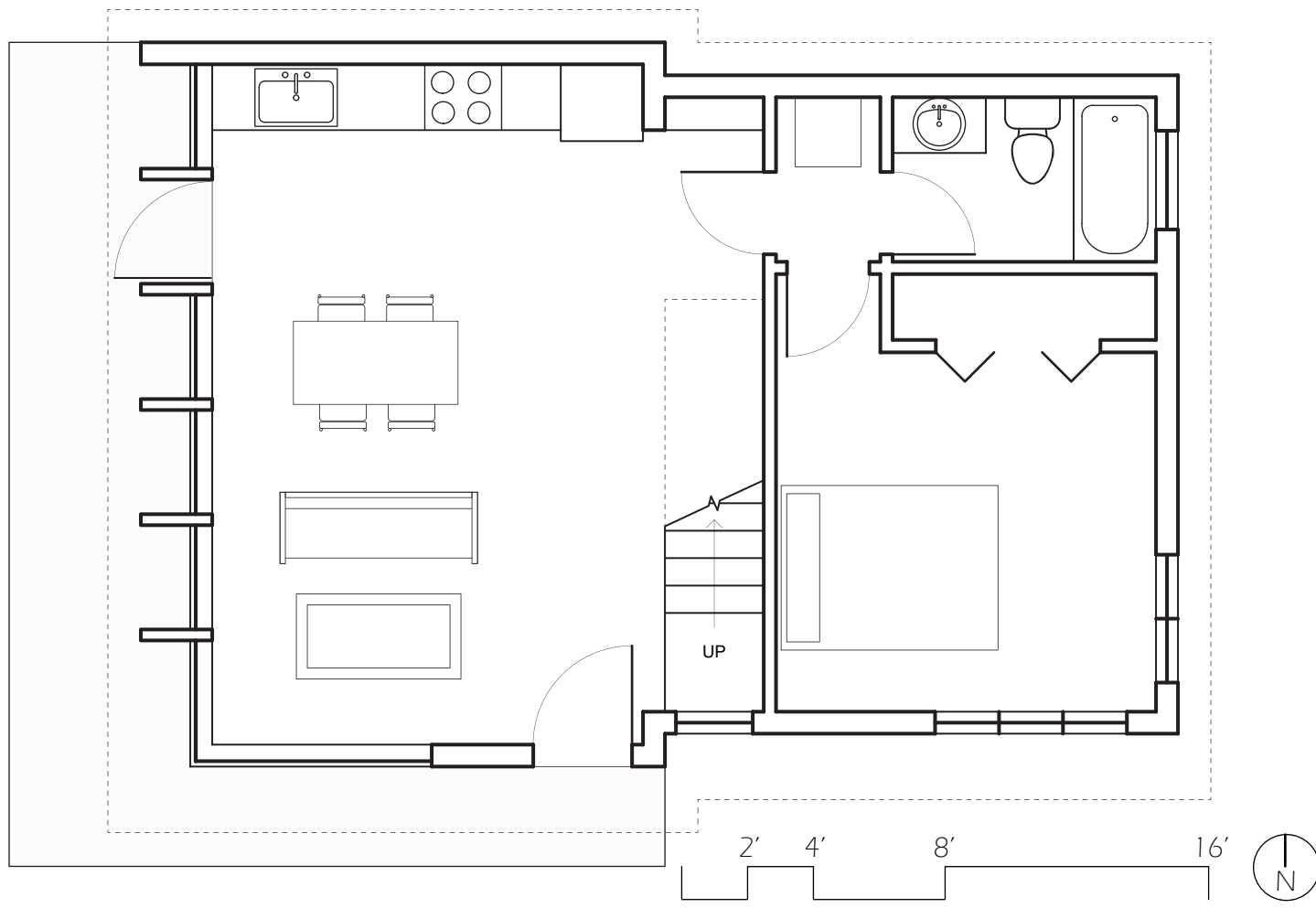


FIRST FLOOR PLAN

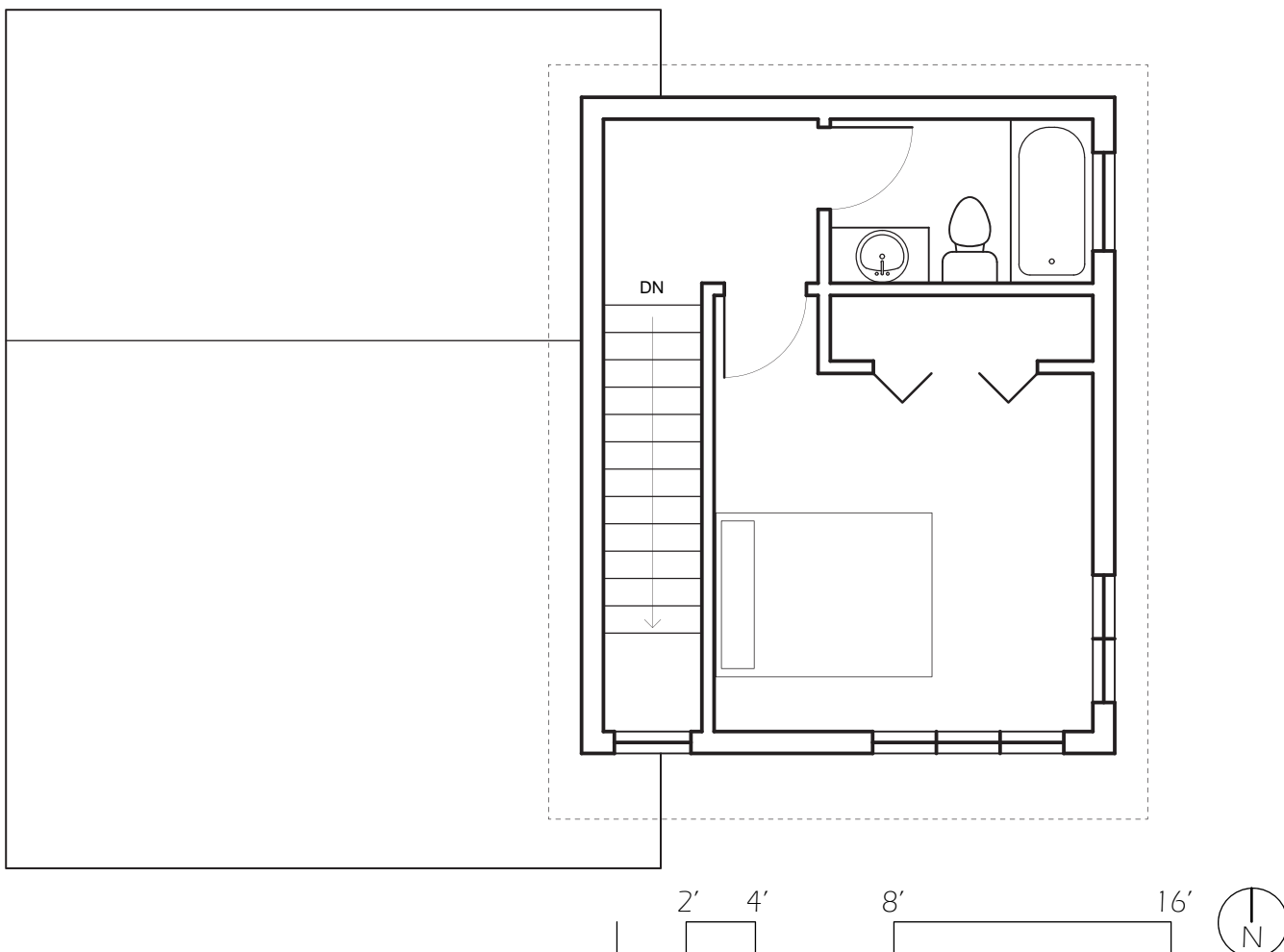


SECOND FLOOR PLAN

TWO BEDROOM UNIT

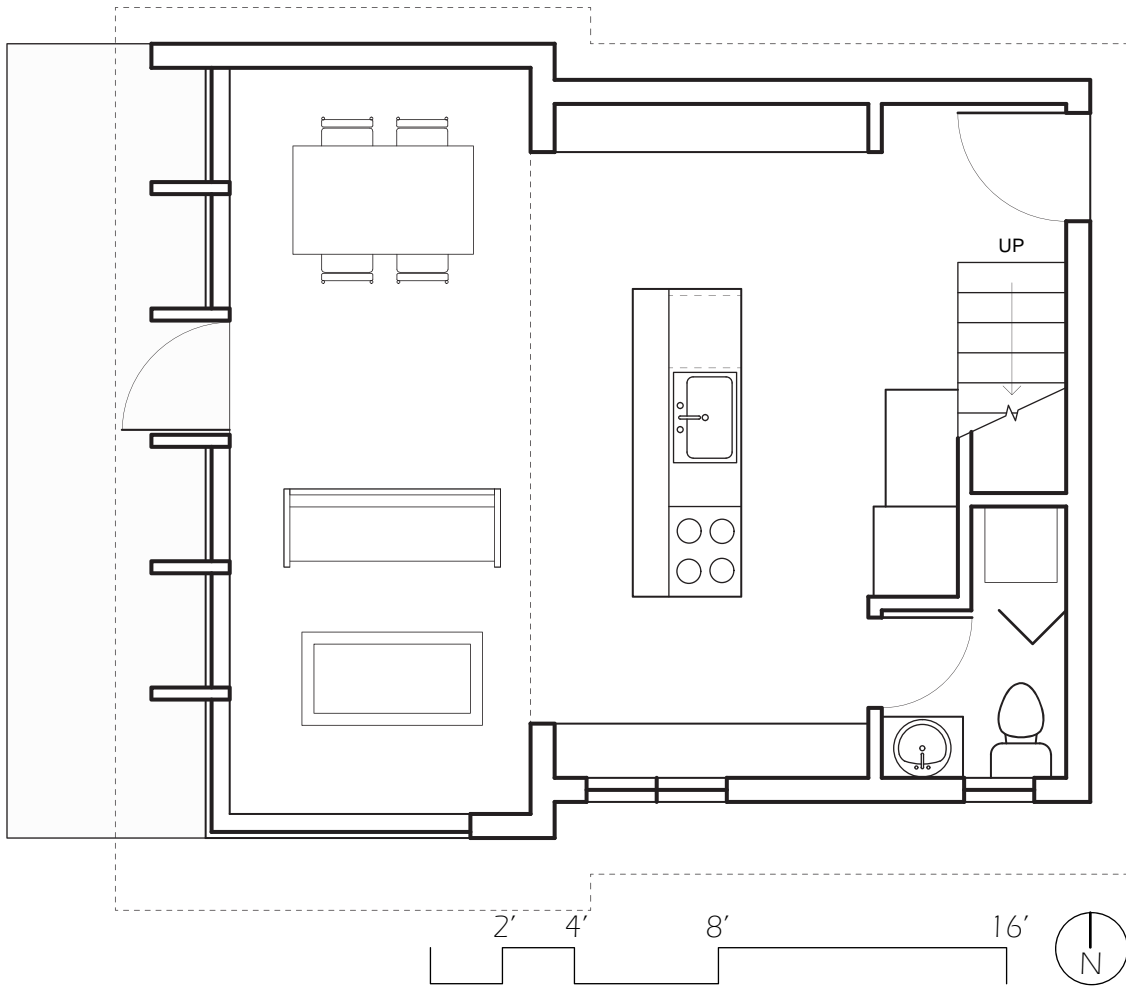


FIRST FLOOR PLAN

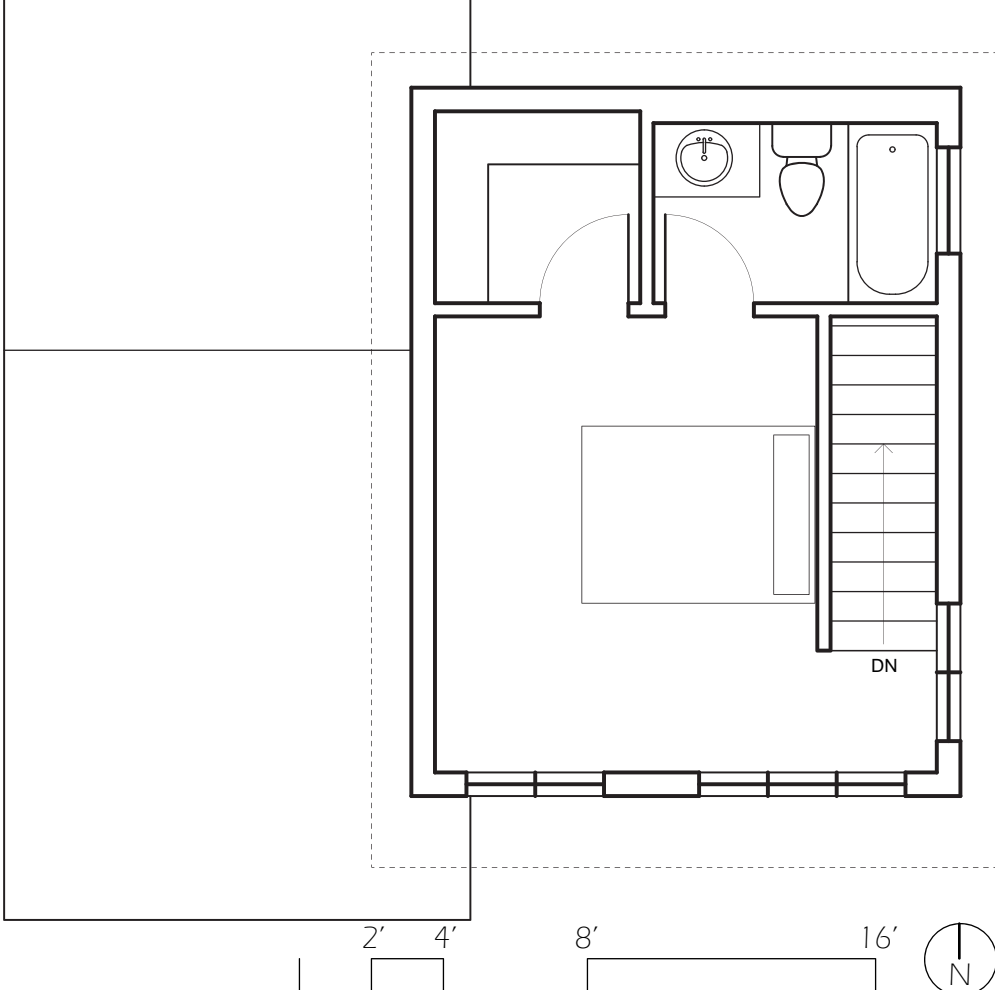


SECOND FLOOR PLAN

ONE BEDROOM UNIT



FIRST FLOOR PLAN



SECOND FLOOR PLAN



VIEW OF THREE DWELLING UNITS



SOUTH ELEVATION



TYPICAL BEDROOM



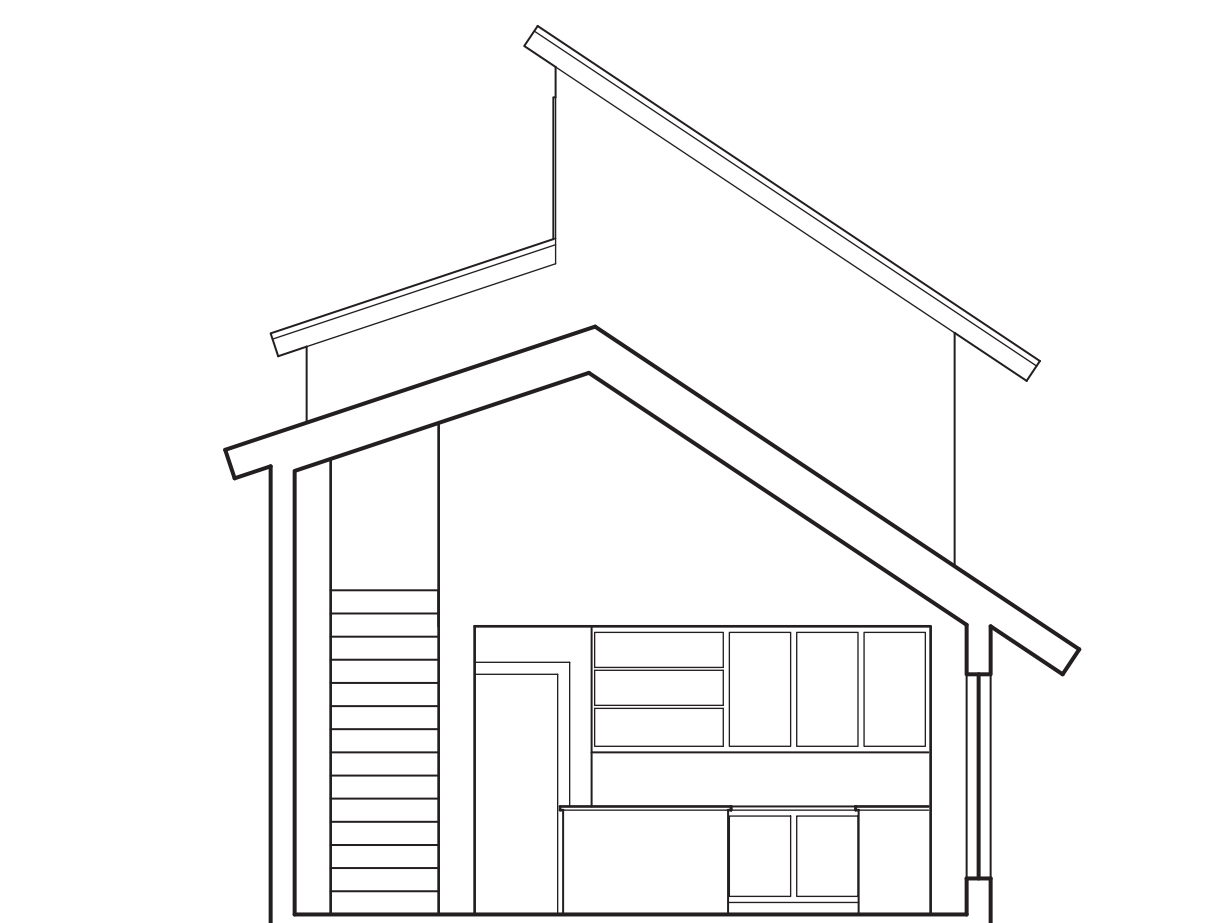
TYPICAL BEDROOM



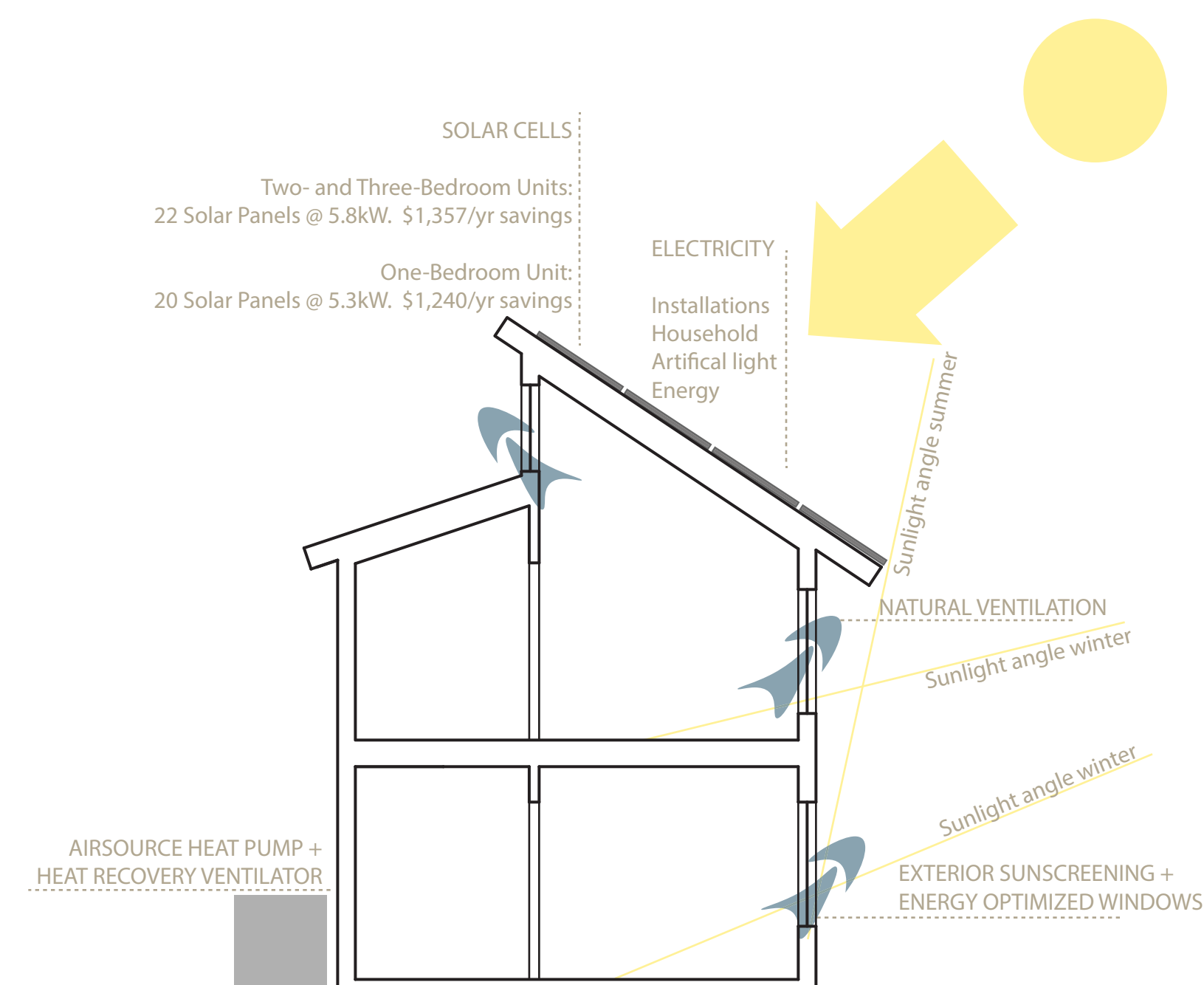
WEST ELEVATION



EAST ELEVATION



LIVING AREA CROSS SECTION



NET ZERO DIAGRAM



TYPICAL LIVING AREA